

OSHWAL EDUCATION TRUST MANAGED
SMT. C.Z.M.GOSRANI BCA COLLEGE - JAMNAGAR
BCA SEM - 4 - PRELIM EXAM - April – 2022

SUB : Network Technology and Administration
TIME :

MARKS: 70
DATE :

- Q.1 A Attempt the following** 4 Marks
- 1) Which network type is designed for limited number of computers?
 - 2) Which topology combines the characteristics of linear bus and star topology?
 - 3) Full form of FDDI is _____.
 - 4) CSMA-CD scheme is known as _____.
- Q.1 B Answer in brief (Any 1 out of 2)** 2 Marks
- 1) Define : Polling
 - 2) Define : Print Services
- Q.1 C Answer in detail (Any 1 out of 2)** 3 Marks
- 1) Give Difference : Ring topology v/s Star Topology
 - 2) Explain software layers of OSI Reference Model.
- Q.1 D Write a note on (Any 1 out of 2)** 5 Marks
- 1) Explain peer to peer and client server network.
 - 2) Explain TCP/IP model with four different layers.
- Q.2 A Attempt the following** 4 Marks
- 1) In 10BaseT, T stands for _____.
 - 2) RG58 cable is ____ in diameter and mainly used in network.
 - 3) The circuit that combines signals at the source end of communications link is known as _____.
 - 4) CDM stands for _____.
- Q.2 B Answer in brief (Any 1 out of 2)** 2 Marks
- 1) Give Difference : Guided Media v/s Unguided Media
 - 2) List types of Multiplexing.
- Q.2 C Answer in detail (Any 1 out of 2)** 3 Marks
- 1) Explain Microwave and Infrared signals.
 - 2) What is switching? List all switching methods.
- Q.2 D Write a note on (Any 1 out of 2)** 5 Marks
- 1) Explain Wireless Media in details.
 - 2) Write a short note : Message Switching
- Q.3 A Attempt the following** 4 Marks
- 1) DSL and ADSL are which layer devices?
 - 2) Switches and bridges are which layer devices?
 - 3) Which type of hub needs power supply?
 - 4) Full form of MAC is _____.
- Q.3 B Answer in brief (Any 1 out of 2)** 2 Marks
- 1) What is Protocol? List out various protocols.
 - 2) What is routing? List all different types of routing.
- Q.3 C Answer in detail (Any 1 out of 2)** 3 Marks
- 1) Give Difference: Connection Oriented v/s Connectionless Protocol.
 - 2) Give Difference: Static Routing v/s Dynamic Routing.
- Q.3 D Write a note on (Any 1 out of 2)** 5 Marks
- 1) Explain : IPX/SPX
 - 2) Explain about TCP/IP protocols stack in brief.

- Q.4 A Attempt the following** 4 Marks
- 1) Each of the decimal numbers in an IP address is called?
 - 2) Full form : DHCP
 - 3) First Byte of class E specifies decimal Values from __ to __
 - 4) Which command is required to check IP address, subnet mask and gateway address?
- Q.4 B Answer in brief (Any 1 out of 2)** 2 Marks
- 1) What is IP addressing? Explain static and dynamic IP address.
 - 2) What is active directory?
- Q.4 C Answer in detail (Any 1 out of 2)** 3 Marks
- 1) Explain unicast, multicast and broadcast ip address.
 - 2) Explain domain, tree and forest concepts in short.
- Q.4 D Write a note on (Any 1 out of 2)** 5 Marks
- 1) Explain Class structure of IPv4.
 - 2) How to install active directory in Windows 2008 server, write down with steps.
- Q.5 A Attempt the following** 4 Marks
- 1) ISP stands for _____.
 - 2) VPN stands for _____.
 - 3) CCTV stands for _____.
- Choose correct option?
- 4) Which technology required analog signal for internet data sharing.
a.) Lease Line b.) ISDN c.) Dial-up d.) none
- Q.5 B Answer in brief (Any 1 out of 2)** 2 Marks
- 1) Define terminology: Security Policy
 - 2) What is URL?
- Q.5 C Answer in detail (Any 1 out of 2)** 3 Marks
- 1) Write a note on CCTV technology
 - 2) Write a note on information security.
- Q.5 D Write a note on (Any 1 out of 2)** 5 Marks
- 1) What is GPS? Explain application of GPS.
 - 2) Explain encryption with types.